The following listing of claims will replace all prior versions, and listings, of claims in the application:

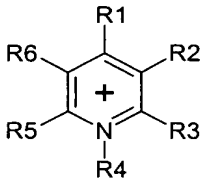
Listing of Claims:

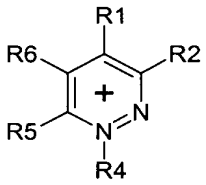
1. (Original): An ionic liquid of the formula

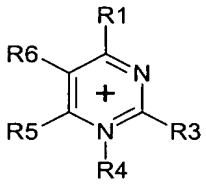
$$K^+A^- \qquad (I)$$

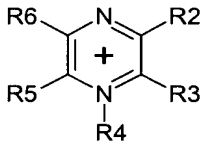
wherein:

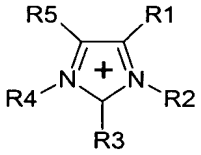
K^+ is a cation selected from

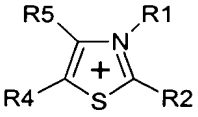


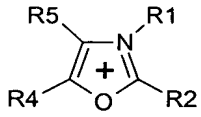


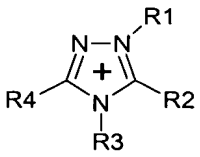












where

R^1 to R^6 are identical or different and are each individually

- H,

- halogen,

- an alkyl radical (C_1 to C_8), which is unsubstituted or partially or fully substituted by F, Cl, $N(C_nF_{(2n+1-x)},H_x)_2$, $O(C_nF_{(2n+1-x)}H_x)$, or $(C_nF_{(2n+1-x)},H_x)$, where $1<n<6$ and $0<x\leq 13$,

- a phenyl radical which is unsubstituted or partially or fully substituted by F, Cl, $N(C_nF_{(2n+1+x)}H_x)_2$, $O(C_nF_{(2n+1-1)}H_x)$, $SO_2(C_nF_{(2n+1-x)}H_x)$ or $C_nF_{(2n+1-x)}H_x$ where $1<n<6$ and $0<x\leq 13$, or

- one or more pairs of adjacent R^1 to R^6 can also be an alkylene or alkenylene radical having up to 8 C atoms and which is unsubstituted or partially or fully unsubstituted by halogen, $N(C_nF_{(2n+1x)}H_x)_2$, $O(C_nF_{(2n+1-x)}H_x)$, $SO_2(C_nF_{(2n+1-x)}H_x$ or $C_nF_{(2n+1-x)}H_x$ where $1<n<6$ and $0\leq x\leq 13$; and

A^- is an anion of the following formula

$$[PF_x(C_yF_{2y+1-z}H_z)_{6-x}]^-$$

where $1 \leq x < 6$

$1 \leq y \leq 8$ and

$0 \leq z \leq 2y+1$.

2. (Original): A compound according to claim 1, wherein at least one R^1 to R^6 group is a halogen.

3. (Original): A compound according to claim 1, wherein at least one R^1 to R^6 group is an alkyl radical (C_1 to C_8), which is unsubstituted or partially or fully substituted by F, Cl, $N(C_nF_{(2n+1-x)},H_x)_2$, $O(C_nF_{(2n+1-x)}H_x)$, or $(C_nF_{(2n+1-x)},H_x)$, where $1<n<6$ and $0<x\leq 13$.

4. (Original): A compound according to claim 1, wherein at least one R^1 to R^6 group is a phenyl radical which is unsubstituted or partially or fully substituted by F, Cl, $N(C_nF_{(2n+1+x)}H_x)_2$, $O(C_nF_{(2n+1-1)}H_x)$, $SO_2(C_nF_{(2n+1-x)}H_x)$ or $C_nF_{(2n+1-x)}H_x$ where $1<n<6$ and

$0 < x \leq 13$.

5. (Original): A compound according to claim 1, wherein at least one adjacent pair of R^1 to R^6 is an alkylene or alkenylene radical having up to 8 C atoms and which is unsubstituted or partially or fully unsubstituted by halogen, $N(C_nF_{(2n+1x)}H_x)_2$, $O(C_nF_{(2n+1-x)}H_x)$, $SO_2(C_nF_{(2n+1-x)}H_x$ or $C_nF_{(2n+1-x)}H_x$ where $1 < n < 6$ and $0 \leq x \leq 13$.

6. (Original): A compound according to claim 1, wherein said compound has at least one perfluorinated alkyl group.

7. (Original): A compound according to claim 1, wherein said compound contains at least one $C_yF_{2y+1-z}H_z$ group selected from C_2F_5 and C_4F_9.

8. (Original): An electrochemical cell comprising a cathode, an anode, a separator, and an ionic liquid of claim 1.

9. (Original): A capacitor comprising of at least a pair of electrodes, a separator, and an ionic liquid of claim 1.

10. (Original): An electrolyte composition comprising an ionic liquid of claim 1 and an aprotic solvent.

11. (Original): An electrolyte composition comprising an ionic liquid of claim 1 and a conductive salt.

12. (Previously Presented): A compound according to claim 1, wherein said compound is:
1-ethyl-3-methylimidazolium tris(pentafluoroethyl)trifluorophosphate;
1,2-dimethyl-3-propylimidazolium tris(pentafluoroethyl)trifluorophosphate; or
1-ethyl-3-methylimidazolium tris(nonafluorobutyl)trifluorophosphate.

13. (Previously Presented): A compound according to claim 12, wherein said compound is 1-ethyl-3-methylimidazolium tris(pentafluoroethyl)trifluorophosphate.

14. (Previously Presented): A compound according to claim 1, wherein R^1 to R^6 are each H or a C_1 to C_8 alkyl, which is unsubstituted or partially or fully substituted by F, Cl, $N(C_nF_{(2n+1-x)},H_x)_2$, $O(C_nF_{(2n+1-x)}H_x)$, or $(C_nF_{(2n+1-x)},H_x)$, where $1<n<6$ and $0<x\leq 13$.

15. (Previously Presented): A compound according to claim 1, wherein R^1 to R^6 are each H or a C_1 to C_8 alkyl.

16. (Previously Presented): An electrolyte composition according to claim 11, wherein said conductive salt is $LiPF_6$, $LiBF_4$, $LiClO_4$, $LiAsF_6$, $LiCF_3SO_3$, $LiN(CF_3SO_2)_2$, $LiC(CF_3SO_2)_3$ or a mixture thereof.

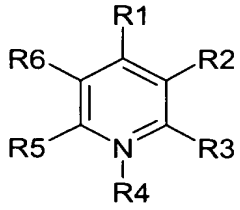
17. (Previously Presented): An electrolyte composition according to claim 11, wherein said composition contains 1-99 wt% of said ionic liquid.

18. (Previously Presented): An electrolyte composition according to claim 11, wherein said composition further contains an organic isocyanate.

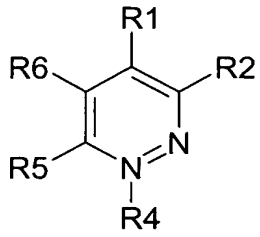
19. (Previously Presented): A compound according to claim 1, wherein $2 \leq y \leq 8$.

20. (Previously Presented): A compound according to claim 1, wherein $1 \leq z \leq 2y+1$.

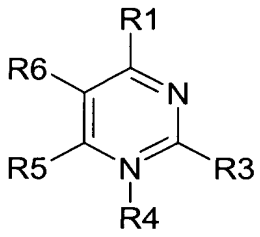
21. (New): A compound according to claim 1, wherein K^+ is



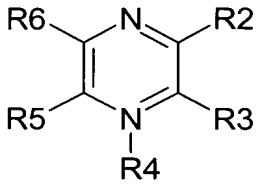
22. (New): A compound according to claim 1, wherein K^+ is



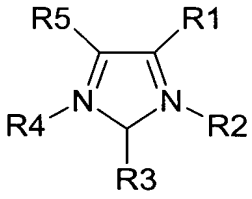
23. (New): A compound according to claim 1, wherein K^+ is



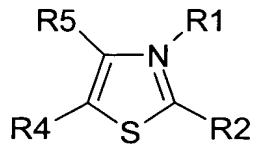
24. (New): A compound according to claim 1, wherein K^+ is



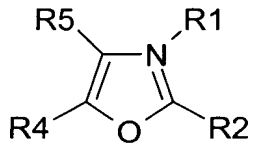
25. (New): A compound according to claim 1, wherein K^+ is



26. (New): A compound according to claim 1, wherein K^+ is



27. (New): A compound according to claim 1, wherein K^+ is



28. (New): A compound according to claim 1, wherein K^+ is